

We claim:

1. A method for controlling the timing of ignition  
in each of a plurality of cylinders of an internal  
5 combustion engine used to power a transmission having a  
plurality of gears through a crankshaft, the method  
comprising the steps of:

identifying the gear transmitting power  
generation from the internal combustion engine;

10 measuring a speed of operation for the internal  
combustion engine; and

generating timing parameter for ignition for  
each of the cylinders of the internal combustion engine.

15 2. A method as set forth in claim 1 wherein the  
step of generating timing parameters includes the step of  
identifying the timing parameters using a look-up table.

3. A method as set forth in claim 2 wherein the  
20 step of measuring a speed of operation includes measuring  
the revolutions per minute of the crankshaft of the  
internal combustion engine to establish a measured  
revolution per minute value.

4. A method as set forth in claim 3 including the step of determining whether the measured revolution per minute value is represented in the look-up table.

5 5. A method as set forth in claim 4 including the step of interpolating the timing parameters from member values of the look-up table close to the measured revolution per minute value.

10 6. A method as set forth in claim 5 including the step of collecting values for revolutions per minute from cells in the look-up table that are close to the measured revolution per minute value.

15 7. A method for controlling the timing of ignition in each of a plurality of cylinders of an internal combustion engine used to power a transmission having a plurality of gears through a crankshaft, the method comprising the steps of:

20 identifying the gear transmitting power generation from the internal combustion engine;

measuring revolutions per minute for the internal combustion engine to establish a measured revolution per minute value; and

generating timing parameter for ignition for each of the cylinders of the internal combustion engine.

8. A method as set forth in claim 7 wherein the  
5 step of generating timing parameters includes the step of identifying the timing parameters using a look-up table.

9. A method as set forth in claim 8 including the  
step of determining whether the measured revolution per  
10 minute value is represented in the look-up table.

10. A method as set forth in claim 9 including the  
step of interpolating the timing parameters from member  
values of the look-up table close to the measured  
15 revolution per minute value.

11. A method as set forth in claim 10 including the  
step of collecting values for revolutions per minute from  
cells in the look-up table that are close to the measured  
20 revolution per minute value.